



### FEATURES

Multiple Case Sizes - High Voltage – High Current

### APPLICATIONS

Filtering – Switching Power Supplies

|   |             |   |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|---|-------------|---|----------------------------------|-----|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Operating Temperature Range               |             | <b>-40°C to +85°C (10VDC to 250VDC)</b><br><b>-25°C to +85°C (350VDC to 500VDC)</b>   |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
| Capacitance Tolerance                     |             | <b>+20% at 120 Hz, 20°C</b>   |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
| Surge Voltage                             | WVDC        | 10  | 16                               | 25  | 35   | 50   | 63 | 80  | 100 | 160 | 200 | 250 | 350 | 400 | 450 | 500 |   |
|   | SVDC        | 13  | 20                               | 32  | 44   | 63   | 79 | 100 | 120 | 200 | 250 | 300 | 400 | 450 | 500 | 550 |   |
| Dissipation Factor (120 Hz)               | WVDC        | 10  | 16                               | 25  | 35   | 50   | 63 | 80  | 100 | 160 | 200 | 250 | 350 | 400 | 450 | 500 |   |
|   | tan δ       | .55   | .5                               | .45 | .4   | .35  | .3 | .25 | .2  | .15 | .15 | .15 | .15 | .15 | .2  | .2  |   |
|   |             | For capacitance values above 33000µF<br>add the following to the Dissipation factors values above <span style="float:right">(capacitance-33000 µF)*0.1</span><br>10000 µF |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
| Leakage Current @20°C, Rated WVDC applied |             | Time  | <b>5 Minutes</b>                 |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | $3\sqrt{CV}$  |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
| Impedance Ratio (120 Hz)                  | WVDC        | 10  | 16                               | 25  | 35   | 50   | 63 | 80  | 100 | 160 | 200 | 250 | 350 | 400 | 450 | 500 |   |
|   | -25°C/+20°C | 4   | 4                                | 4   | 4    | 4    | 4  | 4   | 4   | 3   | 3   | 3   | 3   | 8   | 8   | 8   |   |
|   | -40°C/+20°C | 15  | 15                               | 15  | 15   | 15   | 15 | 15  | 15  | 15  | 15  | 15  | 15  | -   | -   | -   | - |
| Load Life                                 |             | <b>2000 hours with rated voltage applied at 85°C with full rated ripple current applied</b>   |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | Capacitance Change  | ≤20% of initial measured value   |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | Dissipation Factor  | ≤200% of maximum specified value |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | Leakage Current   | ≤100% of maximum specified value |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
| Shelf Life                                |             | <b>1000 hours at 85°C with no voltage applied</b>   |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | Capacitance Change  | ≤20% of initial measured value   |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | Dissipation Factor  | ≤200% of maximum specified value |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | Leakage Current   | ≤100% of maximum specified value |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
| Ripple Current Multipliers                |             | <b>Frequency (Hz)</b>   |                                  |     |      |      |    |     |     |     |     |     |     |     |     |     |   |
|   |             | WVDC  | 60                               | 120 | 1k   | 10k  |    |     |     |     |     |     |     |     |     |     |   |
|   |             | 10 to 100   | 0.9                              | 1.0 | 1.15 | 1.25 |    |     |     |     |     |     |     |     |     |     |   |
|   |             | 160 to 250  | 0.8                              | 1.0 | 1.15 | 1.47 |    |     |     |     |     |     |     |     |     |     |   |
|   |             | 350 to 500  | 0.8                              | 1.0 | 1.15 | 1.47 |    |     |     |     |     |     |     |     |     |     |   |



### Lead style options

|   |  |    |    |    |    |    |    |   |    |    |    |    |    |
|---|--|----|----|----|----|----|----|---|----|----|----|----|----|
| <p><b>Code 2 (Standard)</b></p> <p>Diameter 20 to 40 mm</p> | <p><b>Code Z</b></p> <p>Diameter 20 to 40 mm</p>   |    |    |    |    |    |    |   |    |    |    |    |    |
| <p><b>Code P</b></p> <p>Diameter 22 to 35 mm</p>            | <p><b>Code D</b></p> <p>Diameter 30 to 40 mm</p>   |    |    |    |    |    |    |   |    |    |    |    |    |
| <p><b>Code 9</b></p> <p>Diameter 25 to 35 mm</p>            | <p><b>Code T</b></p> <p>Diameter 25 to 35 mm</p>   |    |    |    |    |    |    |   |    |    |    |    |    |
| <p><b>Code 4</b></p> <p>Diameter 35 to 45 mm</p>            | <p><b>Code 4S (straight leads)</b></p> <p>Diameter 35 to 45 mm</p>   |    |    |    |    |    |    |   |    |    |    |    |    |
| <p><b>Code 5</b></p> <p>Diameter 40 to 50 mm</p>            | <p><b>Code G</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>D</td> <td>35</td> <td>40</td> <td>50</td> <td>63</td> <td>76</td> </tr> <tr> <td>P</td> <td>14</td> <td>14</td> <td>18</td> <td>25</td> <td>25</td> </tr> </tbody> </table> <p>Diameter 35 to 76 mm</p> | D  | 35 | 40 | 50 | 63 | 76 | P | 14 | 14 | 18 | 25 | 25 |
| D   | 35   | 40 | 50 | 63 | 76 |    |    |   |    |    |    |    |    |
| P   | 14   | 14 | 18 | 25 | 25 |    |    |   |    |    |    |    |    |

# LBA

+85°C Standard 2000 hrs

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 47               | 450  | 476LBA450M2BC  | 7054.74                              | 0.46   | 22x25         |
| 56               | 450  | 566LBA450M2AC  | 5920.94                              | 0.61   | 20x25         |
| 68               | 400  | 686LBA400M2AC  | 3657.05                              | 0.75   | 20x25         |
| 68               | 450  | 686LBA450M2AD  | 4876.07                              | 0.7  | 20x30         |
| 68               | 450  | 686LBA450M2BC  | 4876.07                              | 0.71   | 22x25         |
| 68               | 450  | 686LBA450M2CC  | 4876.07                              | 0.6  | 25x25         |
| 82               | 400  | 826LBA400M2AD  | 3032.68                              | 0.82   | 20x30         |
| 82               | 400  | 826LBA400M2BC  | 3032.68                              | 0.84   | 22x25         |
| 82               | 450  | 826LBA450M2AE  | 4043.57                              | 0.8  | 20x35         |
| 82               | 450  | 826LBA450M2BC  | 4043.57                              | 0.86   | 22x25         |
| 100              | 350  | 107LBA350M2CC  | 2486.8                               | 0.63   | 25x25         |
| 100              | 400  | 107LBA400M2BD  | 2486.8                               | 0.68   | 22x30         |
| 100              | 400  | 107LBA400M2AD  | 2486.8                               | 0.95   | 20x30         |
| 100              | 400  | 107LBA400M2CC  | 2486.8                               | 0.99   | 25x25         |
| 100              | 450  | 107LBA450M2BD  | 3315.73                              | 0.95   | 22x30         |
| 100              | 450  | 107LBA450M2CC  | 3315.73                              | 0.97   | 25x25         |
| 100              | 450  | 107LBA450M2BE  | 3315.73                              | 0.77   | 22x35         |
| 100              | 500  | 107LBA500M2CC  | 3315.73                              | 0.8  | 25x25         |
| 100              | 500  | 107LBA500M2DC  | 3315.73                              | 0.84   | 30x25         |
| 120              | 350  | 127LBA350M2AD  | 2072.33                              | 0.96   | 20x30         |
| 120              | 350  | 127LBA350M2BC  | 2072.33                              | 1.04   | 22x25         |
| 120              | 400  | 127LBA400M2AE  | 2072.33                              | 1.07   | 20x35         |
| 120              | 400  | 127LBA400M2BD  | 2072.33                              | 1.09   | 22x30         |
| 120              | 400  | 127LBA400M2CC  | 2072.33                              | 1.13   | 25x25         |
| 120              | 450  | 127LBA450M2AF  | 2763.11                              | 0.99   | 20x40         |
| 120              | 450  | 127LBA450M2BE  | 2763.11                              | 1.07   | 22x35         |
| 120              | 450  | 127LBA450M2CD  | 2763.11                              | 1.09   | 25x30         |
| 120              | 500  | 127LBA500M2CD  | 2763.11                              | 0.89   | 25x30         |
| 120              | 500  | 127LBA500M2DC  | 2763.11                              | 0.9  | 30x25         |
| 150              | 250  | 157LBA250M2CA  | 1657.86                              | 0.85   | 25x20         |
| 150              | 350  | 157LBA350M2AD  | 1657.86                              | 1.1  | 20x30         |
| 150              | 350  | 157LBA350M2BD  | 1657.86                              | 1.2  | 22x30         |
| 150              | 350  | 157LBA350M2CC  | 1657.86                              | 1.22   | 25x25         |
| 150              | 400  | 157LBA400M2AF  | 1657.86                              | 1.22   | 20x40         |
| 150              | 400  | 157LBA400M2BF  | 1657.86                              | 0.94   | 22x40         |
| 150              | 400  | 157LBA400M2CD  | 1657.86                              | 1.27   | 25x30         |
| 150              | 450  | 157LBA450M2BF  | 2210.49                              | 1.18   | 22x40         |
| 150              | 450  | 157LBA450M2CD  | 2210.49                              | 1.25   | 25x30         |
| 150              | 450  | 157LBA450M2DC  | 2210.49                              | 1.29   | 30x25         |
| 150              | 500  | 157LBA500M2CE  | 2210.49                              | 1.07   | 25x35         |
| 180              | 250  | 187LBA250M2AC  | 1381.55                              | 1.2  | 20x25         |
| 180              | 350  | 187LBA350M2AE  | 1381.55                              | 1.24   | 20x35         |
| 180              | 350  | 187LBA350M2BD  | 1381.55                              | 1.34   | 22x30         |
| 180              | 350  | 187LBA350M2CC  | 1381.55                              | 1.37   | 25x25         |
| 180              | 400  | 187LBA400M2BF  | 1381.55                              | 1.41   | 22x40         |
| 180              | 400  | 187LBA400M2CD  | 1381.55                              | 1.44   | 25x30         |
| 180              | 400  | 187LBA400M2DC  | 1381.55                              | 1.52   | 30x25         |
| 180              | 450  | 187LBA450M2BG  | 1842.07                              | 1.32   | 22x45         |
| 180              | 450  | 187LBA450M2CE  | 1842.07                              | 1.4  | 25x35         |
| 180              | 450  | 187LBA450M2DD  | 1842.07                              | 1.45   | 30x30         |
| 180              | 500  | 187LBA500M2DE  | 1842.07                              | 1.3  | 30x35         |
| 220              | 160  | 227LBA160M2BA  | 1130.36                              | 1  | 22x20         |
| 220              | 200  | 227LBA200M2BC  | 1130.36                              | 1.14   | 22x25         |
| 220              | 200  | 227LBA200M2CA  | 1130.36                              | 1.1  | 25x20         |
| 220              | 200  | 227LBA200M2AC  | 1130.36                              | 1.19   | 20x25         |
| 220              | 250  | 227LBA250M2AD  | 1130.36                              | 1.26   | 20x30         |
| 220              | 250  | 227LBA250M2BC  | 1130.36                              | 1.24   | 22x25         |
| 220              | 350  | 227LBA350M2BE  | 1130.36                              | 1.47   | 22x35         |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 220              | 350  | 227LBA350M2CD  | 1130.36                              | 1.53   | 25x30         |
| 220              | 350  | 227LBA350M2DC  | 1130.36                              | 1.54   | 30x25         |
| 220              | 350  | 227LBA350M2DD  | 1130.36                              | 1.29   | 30x30         |
| 220              | 400  | 227LBA400M2BG  | 1130.36                              | 1.58   | 22x45         |
| 220              | 400  | 227LBA400M2CE  | 1130.36                              | 1.64   | 25x35         |
| 220              | 400  | 227LBA400M2DD  | 1130.36                              | 1.66   | 30x30         |
| 220              | 450  | 227LBA450M2CF  | 1507.15                              | 1.59   | 25x40         |
| 220              | 450  | 227LBA450M2DD  | 1507.15                              | 1.64   | 30x30         |
| 220              | 450  | 227LBA450M2ED  | 1507.15                              | 1.66   | 35x30         |
| 220              | 450  | 227LBA450M2DF  | 1507.15                              | 1.44   | 30x40         |
| 220              | 500  | 227LBA500M2CG  | 1507.15                              | 1.4  | 25x45         |
| 270              | 160  | 277LBA160M2AC  | 921.04                               | 1.28   | 20x25         |
| 270              | 200  | 277LBA200M2AD  | 921.04                               | 1.39   | 20x30         |
| 270              | 200  | 277LBA200M2BC  | 921.04                               | 1.37   | 22x25         |
| 270              | 250  | 277LBA250M2AD  | 921.04                               | 1.42   | 20x30         |
| 270              | 250  | 277LBA250M2BD  | 921.04                               | 1.5  | 22x30         |
| 270              | 350  | 277LBA350M2BF  | 921.04                               | 1.7  | 22x40         |
| 270              | 350  | 277LBA350M2CE  | 921.04                               | 1.73   | 25x35         |
| 270              | 350  | 277LBA350M2DC  | 921.04                               | 1.8  | 30x25         |
| 270              | 400  | 277LBA400M2CF  | 921.04                               | 1.79   | 25x40         |
| 270              | 400  | 277LBA400M2DD  | 921.04                               | 1.82   | 30x30         |
| 270              | 450  | 277LBA450M2CG  | 1228.05                              | 1.73   | 25x45         |
| 270              | 450  | 277LBA450M2DE  | 1228.05                              | 1.89   | 30x35         |
| 270              | 450  | 277LBA450M2ED  | 1228.05                              | 1.9  | 35x30         |
| 270              | 500  | 277LBA500M2CH  | 1228.05                              | 1.6  | 25x50         |
| 270              | 500  | 277LBA500M2DF  | 1228.05                              | 1.55   | 30x40         |
| 330              | 160  | 337LBA160M2AC  | 753.57                               | 1.55   | 20x25         |
| 330              | 200  | 337LBA200M2AD  | 753.57                               | 1.56   | 20x30         |
| 330              | 200  | 337LBA200M2BC  | 753.57                               | 1.51   | 22x25         |
| 330              | 250  | 337LBA250M2AE  | 753.57                               | 1.68   | 20x35         |
| 330              | 250  | 337LBA250M2BD  | 753.57                               | 1.66   | 22x30         |
| 330              | 250  | 337LBA250M2CC  | 753.57                               | 1.61   | 25x25         |
| 330              | 250  | 337LBA250M2CD  | 753.57                               | 1.67   | 25x30         |
| 330              | 350  | 337LBA350M2BG  | 753.57                               | 1.87   | 22x45         |
| 330              | 350  | 337LBA350M2CF  | 753.57                               | 1.97   | 25x40         |
| 330              | 350  | 337LBA350M2DD  | 753.57                               | 2.03   | 30x30         |
| 330              | 400  | 337LBA400M2CG  | 753.57                               | 2  | 25x45         |
| 330              | 400  | 337LBA400M2DE  | 753.57                               | 2.05   | 30x35         |
| 330              | 400  | 337LBA400M2ED  | 753.57                               | 2.05   | 35x30         |
| 330              | 450  | 337LBA450M2DF  | 1004.77                              | 2.12   | 30x40         |
| 330              | 450  | 337LBA450M2EE  | 1004.77                              | 2.15   | 35x35         |
| 330              | 500  | 337LBA500M2DG  | 1004.77                              | 1.8  | 30x45         |
| 390              | 160  | 397LBA160M2AD  | 637.64                               | 1.63   | 20x30         |
| 390              | 160  | 397LBA160M2BC  | 637.64                               | 1.63   | 22x25         |
| 390              | 200  | 397LBA200M2AE  | 637.64                               | 1.74   | 20x35         |
| 390              | 200  | 397LBA200M2BD  | 637.64                               | 1.73   | 22x30         |
| 390              | 200  | 397LBA200M2CC  | 637.64                               | 1.71   | 25x25         |
| 390              | 250  | 397LBA250M2AF  | 637.64                               | 1.92   | 20x40         |
| 390              | 250  | 397LBA250M2BE  | 637.64                               | 1.88   | 22x35         |
| 390              | 250  | 397LBA250M2CD  | 637.64                               | 1.88   | 25x30         |
| 390              | 350  | 397LBA350M2CF  | 637.64                               | 2.14   | 25x40         |
| 390              | 350  | 397LBA350M2DE  | 637.64                               | 2.23   | 30x35         |
| 390              | 350  | 397LBA350M2ED  | 637.64                               | 2.3  | 35x30         |
| 390              | 400  | 397LBA400M2DF  | 637.64                               | 2.26   | 30x40         |
| 390              | 400  | 397LBA400M2EE  | 637.64                               | 2.28   | 35x35         |
| 390              | 450  | 397LBA450M2DG  | 850.19                               | 2.35   | 30x45         |
| 390              | 450  | 397LBA450M2EF  | 850.19                               | 2.38   | 35x40         |
| 390              | 500  | 397LBA500M2DH  | 850.19                               | 2.1  | 30x50         |

# LBA

+85°C Standard 2000 hrs

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 470              | 160  | 477LBA160M2AE  | 529.11                               | 1.9  | 20x35         |
| 470              | 160  | 477LBA160M2BD  | 529.11                               | 1.86   | 22x30         |
| 470              | 160  | 477LBA160M2CC  | 529.11                               | 1.52   | 25x25         |
| 470              | 200  | 477LBA200M2BF  | 529.11                               | 2.02   | 22x40         |
| 470              | 200  | 477LBA200M2CE  | 529.11                               | 1.8  | 25x35         |
| 470              | 200  | 477LBA200M2CD  | 529.11                               | 1.91   | 25x30         |
| 470              | 200  | 477LBA200M2AF  | 529.11                               | 2.03   | 20x40         |
| 470              | 200  | 477LBA200M2BD  | 529.11                               | 1.97   | 22x30         |
| 470              | 250  | 477LBA250M2BF  | 529.11                               | 2.15   | 22x40         |
| 470              | 250  | 477LBA250M2CE  | 529.11                               | 2.15   | 25x35         |
| 470              | 250  | 477LBA250M2DC  | 529.11                               | 2.04   | 30x25         |
| 470              | 250  | 477LBA250M2BH  | 529.11                               | 2.08   | 22x50         |
| 470              | 250  | 477LBA250M2CF  | 529.11                               | 2.03   | 25x40         |
| 470              | 250  | 477LBA250M2DD  | 529.11                               | 1.97   | 30x30         |
| 470              | 350  | 477LBA350M2DE  | 529.11                               | 2.53   | 30x35         |
| 470              | 350  | 477LBA350M2ED  | 529.11                               | 2.55   | 35x30         |
| 470              | 400  | 477LBA400M2DG  | 529.11                               | 2.51   | 30x45         |
| 470              | 400  | 477LBA400M2EF  | 529.11                               | 2.54   | 35x40         |
| 470              | 400  | 477LBA400M2EG  | 529.11                               | 2.23   | 35x45         |
| 470              | 450  | 477LBA450M2EH  | 529.11                               | 2.5  | 35x50         |
| 470              | 450  | 477LBA450M2EG  | 529.11                               | 2.68   | 35x45         |
| 560              | 160  | 567LBA160M2AF  | 444.07                               | 2.14   | 20x40         |
| 560              | 160  | 567LBA160M2BD  | 444.07                               | 2.15   | 22x30         |
| 560              | 160  | 567LBA160M2CD  | 444.07                               | 2.15   | 25x30         |
| 560              | 200  | 567LBA200M2BF  | 444.07                               | 2.18   | 22x40         |
| 560              | 200  | 567LBA200M2CD  | 444.07                               | 2.15   | 25x30         |
| 560              | 200  | 567LBA200M2DC  | 444.07                               | 2.15   | 30x25         |
| 560              | 250  | 567LBA250M2BG  | 444.07                               | 2.48   | 22x45         |
| 560              | 250  | 567LBA250M2CE  | 444.07                               | 2.35   | 25x35         |
| 560              | 250  | 567LBA250M2DD  | 444.07                               | 2.35   | 30x30         |
| 560              | 350  | 567LBA350M2DF  | 444.07                               | 2.73   | 30x40         |
| 560              | 350  | 567LBA350M2EE  | 444.07                               | 2.75   | 35x35         |
| 560              | 400  | 567LBA400M2EF  | 444.07                               | 2.85   | 35x40         |
| 680              | 100  | 687LBA100M2AC  | 487.61                               | 1.66   | 20x25         |
| 680              | 100  | 687LBA100M2BC  | 487.61                               | 1.85   | 22x25         |
| 680              | 160  | 687LBA160M2DC  | 365.71                               | 2.1  | 30x25         |
| 680              | 160  | 687LBA160M2BF  | 365.71                               | 2.35   | 22x40         |
| 680              | 160  | 687LBA160M2CD  | 365.71                               | 2.33   | 25x30         |
| 680              | 200  | 687LBA200M2BH  | 365.71                               | 2.48   | 22x50         |
| 680              | 200  | 687LBA200M2CE  | 365.71                               | 2.48   | 25x35         |
| 680              | 200  | 687LBA200M2DD  | 365.71                               | 2.48   | 30x30         |
| 680              | 250  | 687LBA250M2CF  | 365.71                               | 2.67   | 25x40         |
| 680              | 250  | 687LBA250M2DE  | 365.71                               | 2.4  | 30x35         |
| 680              | 350  | 687LBA350M2EF  | 365.71                               | 3.15   | 35x40         |
| 680              | 400  | 687LBA400M2EH  | 365.71                               | 3.1  | 35x50         |
| 820              | 100  | 827LBA100M2AD  | 404.36                               | 1.85   | 20x30         |
| 820              | 100  | 827LBA100M2BC  | 404.36                               | 1.86   | 22x25         |
| 820              | 160  | 827LBA160M2BG  | 303.27                               | 2.68   | 22x45         |
| 820              | 160  | 827LBA160M2CE  | 303.27                               | 2.65   | 25x35         |
| 820              | 160  | 827LBA160M2DD  | 303.27                               | 2.64   | 30x30         |
| 820              | 200  | 827LBA200M2BH  | 303.27                               | 2.81   | 22x50         |
| 820              | 200  | 827LBA200M2CF  | 303.27                               | 2.79   | 25x40         |
| 820              | 200  | 827LBA200M2DD  | 303.27                               | 2.75   | 30x30         |
| 820              | 250  | 827LBA250M2DE  | 303.27                               | 2.98   | 30x35         |
| 820              | 250  | 827LBA250M2ED  | 303.27                               | 2.96   | 35x30         |
| 820              | 250  | 827LBA250M2CH  | 303.27                               | 3.1  | 25x50         |
| 820              | 350  | 827LBA350M2EG  | 303.27                               | 3.47   | 35x45         |
| 820              | 400  | 827LBA400M2EH  | 303.27                               | 4  | 35x50         |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 1000             | 80   | 108LBA080M2AC  | 414.47                               | 1.56   | 20x25         |
| 1000             | 80   | 108LBA080M2BC  | 414.47                               | 1.65   | 22x25         |
| 1000             | 100  | 108LBA100M2CC  | 331.57                               | 2.03   | 25x25         |
| 1000             | 100  | 108LBA100M2AE  | 331.57                               | 2.02   | 20x35         |
| 1000             | 100  | 108LBA100M2BD  | 331.57                               | 2.02   | 22x30         |
| 1000             | 160  | 108LBA160M2BH  | 248.68                               | 3.02   | 22x50         |
| 1000             | 160  | 108LBA160M2CF  | 248.68                               | 3  | 25x40         |
| 1000             | 160  | 108LBA160M2DD  | 248.68                               | 2.8  | 30x30         |
| 1000             | 200  | 108LBA200M2DG  | 248.68                               | 3.42   | 30x45         |
| 1000             | 200  | 108LBA200M2EE  | 248.68                               | 3.35   | 35x35         |
| 1000             | 200  | 108LBA200M2CG  | 248.68                               | 3.28   | 25x45         |
| 1000             | 200  | 108LBA200M2DE  | 248.68                               | 3.15   | 30x35         |
| 1000             | 250  | 108LBA250M2DG  | 248.68                               | 3  | 30x45         |
| 1000             | 250  | 108LBA250M2DH  | 248.68                               | 3.65   | 30x50         |
| 1000             | 250  | 108LBA250M2EF  | 248.68                               | 3.58   | 35x40         |
| 1000             | 350  | 108LBA350M2EH  | 248.68                               | 3.6  | 35x50         |
| 1200             | 80   | 128LBA080M2AD  | 345.39                               | 1.8  | 20x30         |
| 1200             | 80   | 128LBA080M2BC  | 345.39                               | 1.77   | 22x25         |
| 1200             | 100  | 128LBA100M2AF  | 276.31                               | 2.12   | 20x40         |
| 1200             | 100  | 128LBA100M2BD  | 276.31                               | 2.12   | 22x30         |
| 1200             | 100  | 128LBA100M2CC  | 276.31                               | 2.11   | 25x25         |
| 1200             | 160  | 128LBA160M2CG  | 207.23                               | 3.43   | 25x45         |
| 1200             | 160  | 128LBA160M2DE  | 209.23                               | 3.2  | 30x35         |
| 1200             | 160  | 128LBA160M2ED  | 207.23                               | 3.2  | 35x30         |
| 1200             | 200  | 128LBA200M2CH  | 207.23                               | 3.61   | 25x50         |
| 1200             | 200  | 128LBA200M2DF  | 207.23                               | 3.61   | 30x40         |
| 1200             | 250  | 128LBA250M2DH  | 207.23                               | 3.99   | 30x50         |
| 1200             | 250  | 128LBA250M2EF  | 207.23                               | 3.84   | 35x40         |
| 1500             | 63   | 158LBA063M2AC  | 331.57                               | 1.69   | 20x25         |
| 1500             | 63   | 158LBA063M2BC  | 331.57                               | 2  | 22x25         |
| 1500             | 80   | 158LBA080M2AE  | 276.31                               | 2.1  | 20x35         |
| 1500             | 80   | 158LBA080M2BD  | 276.31                               | 2.01   | 22x30         |
| 1500             | 100  | 158LBA100M2BE  | 221.05                               | 2.45   | 22x35         |
| 1500             | 100  | 158LBA100M2CD  | 221.05                               | 2.47   | 25x30         |
| 1500             | 160  | 158LBA160M2DF  | 165.79                               | 3.96   | 30x40         |
| 1500             | 160  | 158LBA160M2EE  | 165.79                               | 3.48   | 35x35         |
| 1500             | 200  | 158LBA200M2EG  | 165.79                               | 4.1  | 35x45         |
| 1500             | 200  | 158LBA200M2DG  | 165.79                               | 4.13   | 30x45         |
| 1500             | 250  | 158LBA250M2EH  | 165.79                               | 4  | 35x50         |
| 1800             | 50   | 188LBA050M2AC  | 322.36                               | 1.7  | 20x25         |
| 1800             | 63   | 188LBA063M2AD  | 276.31                               | 2.04   | 20x30         |
| 1800             | 63   | 188LBA063M2BC  | 276.31                               | 1.9  | 22x25         |
| 1800             | 80   | 188LBA080M2AF  | 230.26                               | 2.3  | 20x40         |
| 1800             | 80   | 188LBA080M2BD  | 230.26                               | 2.11   | 22x30         |
| 1800             | 80   | 188LBA080M2CC  | 230.26                               | 2.26   | 25x25         |
| 1800             | 100  | 188LBA100M2BF  | 184.21                               | 2.77   | 22x40         |
| 1800             | 100  | 188LBA100M2CE  | 184.21                               | 2.81   | 25x35         |
| 1800             | 100  | 188LBA100M2DC  | 184.21                               | 2.65   | 30x25         |
| 1800             | 160  | 188LBA160M2DG  | 184.21                               | 4.31   | 30x45         |
| 1800             | 160  | 188LBA160M2EE  | 184.21                               | 4.28   | 35x35         |
| 1800             | 200  | 188LBA200M2EG  | 138.16                               | 4.2  | 35x45         |
| 1800             | 200  | 188LBA200M2EH  | 138.16                               | 4.38   | 35x50         |
| 2200             | 35   | 228LBA035M2CA  | 301.43                               | 1.7  | 25x20         |
| 2200             | 50   | 228LBA050M2AD  | 263.75                               | 2.07   | 20x30         |
| 2200             | 50   | 228LBA050M2BC  | 263.75                               | 2  | 22x25         |
| 2200             | 63   | 228LBA063M2CC  | 226.07                               | 2.3  | 25x25         |
| 2200             | 63   | 228LBA063M2AE  | 226.07                               | 2.4  | 20x35         |
| 2200             | 63   | 228LBA063M2BD  | 226.07                               | 2.35   | 22x30         |

# LBA

+85°C Standard 2000 hrs

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 2200             | 80   | 228LBA080M2CD  | 188.39                               | 2.53   | 25x30         |
| 2200             | 80   | 228LBA080M2DC  | 188.39                               | 2.56   | 30x25         |
| 2200             | 100  | 228LBA100M2BG  | 150.71                               | 3.15   | 22x45         |
| 2200             | 100  | 228LBA100M2CF  | 150.71                               | 3.21   | 25x40         |
| 2200             | 100  | 228LBA100M2DD  | 150.71                               | 3.17   | 30x30         |
| 2200             | 100  | 228LBA100M2CG  | 150.71                               | 3.41   | 25x45         |
| 2200             | 160  | 228LBA160M2EF  | 113.04                               | 4.96   | 35x40         |
| 2200             | 200  | 228LBA200M2EH  | 113.04                               | 4.7  | 35x50         |
| 2700             | 35   | 278LBA035M2AC  | 245.61                               | 1.76   | 20x25         |
| 2700             | 50   | 278LBA050M2AE  | 214.91                               | 2.21   | 20x35         |
| 2700             | 50   | 278LBA050M2BD  | 214.91                               | 2.21   | 22x30         |
| 2700             | 63   | 278LBA063M2AF  | 184.21                               | 2.52   | 20x40         |
| 2700             | 63   | 278LBA063M2BE  | 184.21                               | 2.5  | 22x35         |
| 2700             | 63   | 278LBA063M2CD  | 184.21                               | 2.52   | 25x30         |
| 2700             | 80   | 278LBA080M2BG  | 153.51                               | 2.93   | 22x45         |
| 2700             | 80   | 278LBA080M2CE  | 153.51                               | 2.93   | 25x35         |
| 2700             | 80   | 278LBA080M2DD  | 153.51                               | 2.91   | 30x30         |
| 2700             | 100  | 278LBA100M2DE  | 122.8                                | 3.65   | 30x35         |
| 2700             | 100  | 278LBA100M2ED  | 122.8                                | 3.77   | 35x30         |
| 2700             | 100  | 278LBA100M2EG  | 122.8                                | 3.66   | 35x45         |
| 2700             | 160  | 278LBA160M2EH  | 92.1                                 | 5.57   | 35x50         |
| 3300             | 35   | 338LBA035M2AD  | 200.95                               | 2.14   | 20x30         |
| 3300             | 35   | 338LBA035M2BC  | 200.95                               | 2.2  | 22x25         |
| 3300             | 50   | 338LBA050M2CC  | 175.83                               | 2.35   | 25x25         |
| 3300             | 50   | 338LBA050M2BD  | 175.83                               | 2.4  | 22x30         |
| 3300             | 50   | 338LBA050M2AF  | 175.83                               | 2.41   | 20x40         |
| 3300             | 50   | 338LBA050M2BC  | 401.9                                | 1.8  | 22x25         |
| 3300             | 63   | 338LBA063M2BF  | 150.71                               | 2.72   | 22x40         |
| 3300             | 63   | 338LBA063M2CD  | 150.71                               | 2.74   | 25x30         |
| 3300             | 63   | 338LBA063M2DC  | 150.71                               | 2.78   | 30x25         |
| 3300             | 80   | 338LBA080M2BH  | 125.6                                | 3.23   | 22x50         |
| 3300             | 80   | 338LBA080M2CF  | 125.6                                | 3.29   | 25x40         |
| 3300             | 80   | 338LBA080M2DD  | 125.6                                | 3.25   | 30x30         |
| 3300             | 100  | 338LBA100M2CH  | 100.48                               | 4.15   | 25x50         |
| 3300             | 100  | 338LBA100M2DF  | 100.48                               | 4.18   | 30x40         |
| 3300             | 100  | 338LBA100M2EE  | 100.48                               | 3.58   | 35x35         |
| 3900             | 35   | 398LBA035M2AD  | 170.14                               | 2.28   | 20x30         |
| 3900             | 35   | 398LBA035M2BC  | 170.14                               | 2.22   | 22x25         |
| 3900             | 50   | 398LBA050M2BE  | 148.78                               | 2.72   | 22x35         |
| 3900             | 50   | 398LBA050M2CD  | 148.78                               | 2.68   | 25x30         |
| 3900             | 63   | 398LBA063M2BG  | 127.53                               | 3.09   | 22x45         |
| 3900             | 63   | 398LBA063M2CE  | 127.53                               | 3.13   | 25x35         |
| 3900             | 63   | 398LBA063M2DD  | 127.53                               | 3.09   | 30x30         |
| 3900             | 80   | 398LBA080M2CG  | 106.27                               | 3.62   | 25x45         |
| 3900             | 80   | 398LBA080M2DE  | 106.27                               | 3.7  | 30x35         |
| 3900             | 100  | 398LBA100M2DG  | 85.02                                | 4.64   | 30x45         |
| 3900             | 100  | 398LBA100M2EE  | 85.02                                | 4.61   | 35x35         |
| 4700             | 25   | 478LBA025M2AC  | 158.73                               | 2.18   | 20x25         |
| 4700             | 25   | 478LBA025M2BC  | 158.73                               | 2.2  | 22x25         |
| 4700             | 35   | 478LBA035M2BD  | 141.09                               | 2.4  | 22x30         |
| 4700             | 35   | 478LBA035M2CC  | 141.09                               | 2.35   | 25x25         |
| 4700             | 35   | 478LBA035M2AE  | 141.09                               | 2.46   | 20x35         |
| 4700             | 50   | 478LBA050M2CD  | 123.46                               | 3.07   | 25x30         |
| 4700             | 50   | 478LBA050M2BF  | 123.46                               | 2.91   | 22x40         |
| 4700             | 50   | 478LBA050M2CE  | 123.46                               | 2.86   | 25x35         |
| 4700             | 50   | 478LBA050M2DC  | 123.46                               | 2.8  | 30x25         |
| 4700             | 63   | 478LBA063M2DD  | 105.82                               | 3.2  | 30x30         |
| 4700             | 63   | 478LBA063M2BH  | 105.82                               | 3.69   | 22x50         |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 4700             | 63   | 478LBA063M2CF  | 105.82                               | 3.59   | 25x40         |
| 4700             | 63   | 478LBA063M2CE  | 105.82                               | 3.59   | 25x35         |
| 4700             | 80   | 478LBA080M2ED  | 88.18                                | 3.3  | 35x30         |
| 4700             | 80   | 478LBA080M2CH  | 88.18                                | 4.28   | 25x50         |
| 4700             | 80   | 478LBA080M2DF  | 88.18                                | 4.23   | 30x40         |
| 4700             | 100  | 478LBA100M2DH  | 70.55                                | 5.26   | 30x50         |
| 4700             | 100  | 478LBA100M2EF  | 70.55                                | 5.23   | 35x40         |
| 4700             | 100  | 478LBA100M2EG  | 70.55                                | 4.3  | 35x45         |
| 5600             | 25   | 568LBA025M2AD  | 133.22                               | 2.33   | 20x30         |
| 5600             | 25   | 568LBA025M2BC  | 133.22                               | 2.31   | 22x25         |
| 5600             | 35   | 568LBA035M2BE  | 118.42                               | 2.79   | 22x35         |
| 5600             | 35   | 568LBA035M2CD  | 118.42                               | 2.75   | 25x30         |
| 5600             | 50   | 568LBA050M2BG  | 103.62                               | 3.43   | 22x45         |
| 5600             | 50   | 568LBA050M2CE  | 103.62                               | 3.47   | 25x35         |
| 5600             | 50   | 568LBA050M2DD  | 103.62                               | 3.43   | 30x30         |
| 5600             | 63   | 568LBA063M2CG  | 88.81                                | 4.01   | 25x45         |
| 5600             | 63   | 568LBA063M2DE  | 88.81                                | 4  | 30x35         |
| 5600             | 63   | 568LBA063M2ED  | 88.81                                | 3.75   | 35x30         |
| 5600             | 80   | 568LBA080M2EE  | 74.01                                | 4.64   | 35x35         |
| 5600             | 100  | 568LBA100M2EG  | 59.21                                | 5.88   | 35x45         |
| 6800             | 16   | 688LBA016M2AC  | 121.9                                | 2.33   | 20x25         |
| 6800             | 25   | 688LBA025M2AE  | 109.71                               | 2.56   | 20x35         |
| 6800             | 25   | 688LBA025M2BD  | 109.71                               | 2.56   | 22x30         |
| 6800             | 25   | 688LBA025M2CC  | 109.71                               | 2.55   | 25x25         |
| 6800             | 35   | 688LBA035M2BE  | 60.95                                | 2.9  | 22x35         |
| 6800             | 35   | 688LBA035M2CD  | 97.52                                | 2.89   | 25x30         |
| 6800             | 50   | 688LBA050M2ED  | 85.33                                | 3.73   | 35x30         |
| 6800             | 50   | 688LBA050M2DD  | 85.33                                | 3.69   | 30x30         |
| 6800             | 50   | 688LBA050M2BH  | 85.33                                | 3.94   | 22x50         |
| 6800             | 50   | 688LBA050M2CF  | 85.33                                | 3.87   | 25x40         |
| 6800             | 50   | 688LBA050M2DE  | 85.33                                | 3.93   | 30x35         |
| 6800             | 63   | 688LBA063M2CH  | 73.14                                | 4.52   | 25x50         |
| 6800             | 63   | 688LBA063M2DF  | 73.14                                | 4.55   | 30x40         |
| 6800             | 80   | 688LBA080M2DH  | 60.95                                | 5.27   | 30x50         |
| 6800             | 80   | 688LBA080M2EF  | 60.95                                | 5.24   | 35x40         |
| 6800             | 80   | 688LBA080M2EG  | 60.95                                | 4.8  | 35x45         |
| 6800             | 100  | 688LBA100M2EH  | 48.76                                | 6.01   | 35x50         |
| 8200             | 16   | 828LBA016M2AD  | 101.09                               | 2.56   | 20x30         |
| 8200             | 25   | 828LBA025M2AF  | 90.98                                | 2.91   | 20x40         |
| 8200             | 25   | 828LBA025M2CC  | 90.98                                | 2.78   | 25x25         |
| 8200             | 35   | 828LBA035M2BG  | 80.87                                | 3.47   | 22x45         |
| 8200             | 35   | 828LBA035M2DD  | 80.87                                | 3.29   | 30x30         |
| 8200             | 35   | 828LBA035M2CE  | 80.87                                | 3.45   | 25x35         |
| 8200             | 50   | 828LBA050M2CG  | 70.76                                | 4.44   | 25x45         |
| 8200             | 50   | 828LBA050M2DE  | 70.76                                | 4.47   | 30x35         |
| 8200             | 50   | 828LBA050M2ED  | 70.76                                | 4.41   | 35x30         |
| 8200             | 63   | 828LBA063M2DG  | 60.65                                | 5.12   | 30x45         |
| 8200             | 63   | 828LBA063M2EE  | 60.65                                | 5.05   | 35x35         |
| 8200             | 80   | 828LBA080M2EG  | 50.54                                | 5.89   | 35x45         |
| 10000            | 16   | 109LBA016M2AE  | 82.89                                | 2.85   | 20x35         |
| 10000            | 16   | 109LBA016M2BD  | 82.89                                | 2.84   | 22x30         |
| 10000            | 16   | 109LBA016M2CC  | 82.89                                | 2.76   | 25x25         |
| 10000            | 25   | 109LBA025M2DC  | 74.6                                 | 3.31   | 30x25         |
| 10000            | 25   | 109LBA025M2BE  | 74.6                                 | 3.31   | 22x35         |
| 10000            | 25   | 109LBA025M2CD  | 74.6                                 | 3.16   | 25x30         |
| 10000            | 35   | 109LBA035M2BH  | 66.31                                | 3.75   | 22x50         |
| 10000            | 35   | 109LBA035M2CF  | 66.31                                | 3.65   | 25x40         |
| 10000            | 35   | 109LBA035M2DD  | 66.31                                | 4  | 30x30         |

# LBA

+85°C Standard 2000 hrs

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 10000            | 50   | 109LBA050M2EE  | 58.03                                | 4.7  | 35x35         |
| 10000            | 50   | 109LBA050M2DF  | 58.03                                | 5.08   | 30x40         |
| 10000            | 63   | 109LBA063M2DH  | 49.74                                | 5.78   | 30x50         |
| 10000            | 63   | 109LBA063M2EG  | 49.74                                | 5.2  | 35x45         |
| 10000            | 80   | 109LBA080M2EH  | 41.45                                | 6.63   | 35x50         |
| 12000            | 10   | 129LBA010M2AD  | 75.99                                | 2.44   | 20x30         |
| 12000            | 10   | 129LBA010M2BC  | 75.99                                | 2.41   | 22x25         |
| 12000            | 16   | 129LBA016M2AF  | 69.08                                | 3.2  | 20x40         |
| 12000            | 16   | 129LBA016M2BD  | 69.08                                | 3.13   | 22x30         |
| 12000            | 16   | 129LBA016M2CC  | 69.08                                | 3.01   | 25x25         |
| 12000            | 25   | 129LBA025M2BF  | 62.17                                | 3.77   | 22x40         |
| 12000            | 25   | 129LBA025M2CE  | 62.17                                | 3.63   | 25x35         |
| 12000            | 25   | 129LBA025M2DC  | 62.17                                | 3.8  | 30x25         |
| 12000            | 35   | 129LBA035M2CG  | 55.26                                | 4.15   | 25x45         |
| 12000            | 35   | 129LBA035M2DE  | 55.26                                | 4.14   | 30x35         |
| 12000            | 35   | 129LBA035M2ED  | 55.26                                | 4.27   | 35x30         |
| 12000            | 50   | 129LBA050M2DH  | 48.35                                | 5.72   | 30x50         |
| 12000            | 50   | 129LBA050M2EF  | 48.35                                | 5.69   | 35x40         |
| 15000            | 10   | 159LBA010M2AE  | 60.79                                | 2.9  | 20x35         |
| 15000            | 10   | 159LBA010M2BD  | 60.79                                | 2.88   | 22x30         |
| 15000            | 16   | 159LBA016M2BE  | 55.26                                | 3.69   | 22x35         |
| 15000            | 16   | 159LBA016M2CD  | 55.26                                | 3.64   | 25x30         |
| 15000            | 16   | 159LBA016M2BF  | 55.26                                | 3.94   | 22x40         |
| 15000            | 16   | 159LBA016M2DC  | 55.26                                | 3.51   | 30x25         |
| 15000            | 25   | 159LBA025M2BH  | 49.74                                | 4.21   | 22x50         |
| 15000            | 25   | 159LBA025M2CF  | 49.74                                | 4.1  | 25x40         |
| 15000            | 25   | 159LBA025M2DD  | 49.74                                | 4  | 30x30         |
| 15000            | 35   | 159LBA035M2DF  | 44.21                                | 5.07   | 30x40         |
| 15000            | 35   | 159LBA035M2EE  | 44.21                                | 5  | 35x35         |
| 15000            | 50   | 159LBA050M2EG  | 38.68                                | 5.9  | 35x45         |
| 18000            | 10   | 189LBA010M2AF  | 50.66                                | 3.31   | 20x40         |
| 18000            | 10   | 189LBA010M2BE  | 50.66                                | 3.22   | 22x35         |
| 18000            | 10   | 189LBA010M2CD  | 50.66                                | 3.08   | 25x30         |
| 18000            | 16   | 189LBA016M2BF  | 46.05                                | 3.98   | 22x40         |
| 18000            | 16   | 189LBA016M2CE  | 46.05                                | 3.98   | 25x35         |
| 18000            | 16   | 189LBA016M2DD  | 46.05                                | 3.88   | 30x30         |
| 18000            | 25   | 189LBA025M2CG  | 41.45                                | 4.68   | 25x45         |
| 18000            | 25   | 189LBA025M2DE  | 41.45                                | 4.66   | 30x35         |
| 18000            | 25   | 189LBA025M2ED  | 41.45                                | 4.68   | 35x30         |
| 18000            | 35   | 189LBA035M2DG  | 36.84                                | 5.3  | 30x45         |
| 18000            | 35   | 189LBA035M2EF  | 36.84                                | 5.71   | 35x40         |
| 18000            | 50   | 189LBA050M2EH  | 32.24                                | 7.14   | 35x50         |
| 22000            | 10   | 229LBA010M2BF  | 41.45                                | 3.79   | 22x40         |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (A)<br>120 Hz,<br>+85°C | Dims DxL (mm) |
|------------------|------|----------------|--------------------------------------|--|---------------|
| 22000            | 10   | 229LBA010M2CD  | 41.45                                | 3.66   | 25x30         |
| 22000            | 16   | 229LBA016M2CF  | 37.68                                | 4.44   | 25x40         |
| 22000            | 16   | 229LBA016M2CH  | 37.68                                | 4.52   | 25x50         |
| 22000            | 16   | 229LBA016M2CE  | 37.68                                | 4.13   | 35x25         |
| 22000            | 16   | 229LBA016M2BH  | 37.68                                | 5.23   | 22x50         |
| 22000            | 16   | 229LBA016M2DD  | 37.68                                | 4.45   | 30x30         |
| 22000            | 25   | 229LBA025M2EE  | 33.91                                | 5.73   | 35x35         |
| 22000            | 25   | 229LBA025M2DF  | 33.91                                | 5.33   | 30x40         |
| 22000            | 35   | 229LBA035M2EG  | 30.14                                | 6.25   | 35x45         |
| 27000            | 10   | 279LBA010M2CE  | 33.77                                | 4.04   | 25x35         |
| 27000            | 10   | 279LBA010M2DD  | 33.77                                | 3.99   | 30x30         |
| 27000            | 16   | 279LBA016M2CG  | 30.7                                 | 4.98   | 25x45         |
| 27000            | 16   | 279LBA016M2DE  | 30.7                                 | 4.95   | 30x35         |
| 27000            | 16   | 279LBA016M2ED  | 30.7                                 | 4.82   | 35x30         |
| 27000            | 25   | 279LBA025M2DG  | 27.63                                | 6.02   | 30x45         |
| 27000            | 25   | 279LBA025M2EF  | 27.63                                | 6.02   | 35x40         |
| 27000            | 35   | 279LBA035M2EH  | 24.56                                | 6.9  | 35x50         |
| 33000            | 10   | 339LBA010M2BH  | 27.63                                | 4.58   | 22x50         |
| 33000            | 10   | 339LBA010M2CF  | 27.63                                | 4.56   | 25x40         |
| 33000            | 10   | 339LBA010M2DD  | 27.63                                | 4.58   | 30x30         |
| 33000            | 16   | 339LBA016M2CH  | 25.12                                | 5.49   | 25x50         |
| 33000            | 16   | 339LBA016M2DF  | 25.12                                | 5.8  | 30x40         |
| 33000            | 16   | 339LBA016M2ED  | 25.12                                | 5.15   | 35x30         |
| 33000            | 25   | 339LBA025M2EH  | 22.61                                | 7.2  | 35x50         |
| 33000            | 25   | 339LBA025M2EG  | 22.61                                | 6.75   | 35x45         |
| 39000            | 10   | 399LBA010M2CG  | 25.93                                | 5.29   | 25x45         |
| 39000            | 10   | 399LBA010M2DE  | 25.93                                | 5.21   | 30x35         |
| 39000            | 10   | 399LBA010M2ED  | 25.93                                | 5.5  | 35x30         |
| 39000            | 16   | 399LBA016M2DG  | 0.02                                 | 6.21   | 30x45         |
| 39000            | 16   | 399LBA016M2EE  | 0.02                                 | 6.12   | 35x35         |
| 39000            | 25   | 399LBA025M2EH  | 0.02                                 | 7.56   | 35x50         |
| 47000            | 10   | 479LBA010M2CH  | 24.34                                | 5.78   | 25x50         |
| 47000            | 10   | 479LBA010M2DF  | 24.34                                | 5.78   | 30x40         |
| 47000            | 10   | 479LBA010M2EE  | 24.34                                | 5.55   | 35x35         |
| 47000            | 16   | 479LBA016M2DH  | 22.58                                | 6.78   | 30x50         |
| 47000            | 16   | 479LBA016M2EF  | 22.58                                | 6.71   | 35x40         |
| 56000            | 10   | 569LBA010M2DG  | 23.09                                | 6.59   | 30x45         |
| 56000            | 10   | 569LBA010M2EE  | 23.09                                | 6.4  | 35x35         |
| 56000            | 16   | 569LBA016M2EG  | 21.61                                | 7.69   | 35x45         |
| 68000            | 10   | 689LBA010M2DH  | 21.94                                | 7.5  | 30x50         |
| 68000            | 10   | 689LBA010M2EF  | 21.94                                | 7.48   | 35x40         |
| 82000            | 10   | 829LBA010M2EH  | 21.03                                | 8.5  | 35x50         |